

## **Appendix A**

### **Data Quality Objectives**

## Appendix A

### Data Quality Objectives

Stabilization Data Quality Objectives					
1: State the Problem	2: Identify the Decision			3: Identify Inputs to the Decision	4: Define the Study Boundaries
Problem Statement	Principal Study Questions	Alternative Actions	Decision Statement		
Soils: PS-1 Find CFS Formulations for soils in: ARA-12 BORAX-01 CFA-04 CPP-92 CPP-98 CPP-99 WRRTF-01	PSQ-1 Can a CFS formulation be found to stabilize the soils in PS-1 while meeting the TCLP and Paint Filter Test and provide an acceptable waste product form for surrogates?	AA-1 CFS Formulations AA-2 Waste Loadings AA-3 Water added	DS-1 Determine the CFS formulations that meet all PSQs and minimize waste volume increase and cost	TCLP PFT Waste form Costs Waste Loading	Surrogate Soil Matrix Waste Site Soils Water Added Waste Loading Portland Cement, Type I <ul style="list-style-type: none"><li>Flyash &lt; 15%</li><li>Blast Furnace Slag &lt; 10%</li><li>Na<sub>2</sub>S &lt; 10%</li></ul>
	PSQ-2 Same as 1 for actual waste samples	AA-4 Waste Loadings			
5: Develop a Decision Rule	6: Specify Tolerable Limits on Decision Errors	7. Optimize the Design			
DR-1 If a CFS formulation passes all PSQs, it is retained for use for SSSTF stabilization	Ranges: Ag 0-600 Cd 0-240 Cr 0-190 Hg 20-880 Pb 0-6700 90% passage of combined PSQs	The design is optimized by surrogate testing and verification testing design of experiments using the golden sections as discussed in Section 4.2.4			